



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Ronald E. Griffin

Serial No.: 09/934,809

Filed: August 21, 2001

Examiner: Not Assigned

Group Art Unit: Not Assigned

Title: Golf Putter

Box PATENT APPLICATION

Commissioner for Patents

Washington, D.C. 20231

Sir:

Transmitted herewith is a response to the outstanding Notice To File Corrected Application Papers for the above-identified patent application. No changes to the Application as originally filed have been made other than submitting the Claims commencing on a separate sheet.

Respectfully submitted,

Date: Sept 17, 2002

By Theresia C Sandhu

Theresia C. Sandhu
Reg. No. 44,315
(408) 723-7600
Law Office of Theresia C. Sandhu
955 Woodgrove Lane
San Jose, California 95136

Enc. Claims on a Separate Sheet and Check for \$80. and copy of Notice to File Corrected Application papers

CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on Sept 17, 2002 with the United States Postal Service as ^{Express} ~~first class~~ mail, with sufficient postage, in an envelope addressed to Box PATENT APPLICATION, Commissioner for Patents, Washington, D.C. 20231.

Theresia C Sandhu

Theresia C. Sandhu

Sept 17, 2002

Date of Signature

Express Mail # E4571944024 US



11:36

004/007
Page 1 of 2

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/934,809	08/21/2001	Ronald E. Griffin	0020012. P001

Theresia C. Sandhu, Esq.
955 Woodgrove Lane
San Jose, CA 95136

CONFIRMATION NO. 8815

FORMALITIES LETTER



OC000000007119208

Date Mailed: 07/18/2002

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a)

The required item(s) identified below must be timely submitted to avoid abandonment:

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- The Claim(s) commencing on a separate sheet (37 CFR 1.75(h)).

Items Required To Avoid Processing Delays:

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$80 for a Small Entity

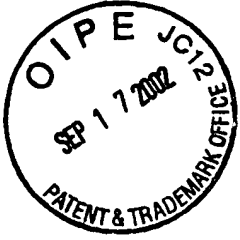
- Total additional claim fee(s) for this application is \$80
 - \$80 for 2 independent claims over 3.

A copy of this notice **MUST** be returned with the reply.

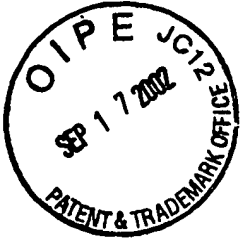
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



204760" 6084E660

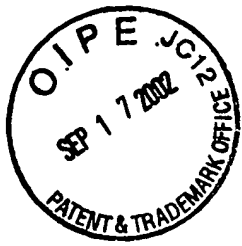


FIGS. 16, 17 and 18 show perspective views of various embodiments of the shaft placement and angle with respect to the putter head. FIG 16 shows a putter designed for the right handed golfer with the shaft **13** in the center of the putter head **1**. FIG. 17 shows an embodiment with the shaft positioned to suit a left handed golfer. FIG. 18 shows the shaft off center.

FIG 19 shows a side view of the putter **24** in balance in the face balance position with the putter in balance at its center of gravity **25**. FIG 20 shows a side view of the putter **24** in balance in a static balance position with the putter in balance at its center of gravity **25**.

FIGS. 21, 22 and 23 show varying embodiments of the invention where the non-radially curved strike face **7** is incorporated into the common heel and toe weighted putter, the blade putter and the mallet putter head designs.

202760-6084E650

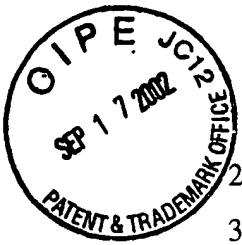


CLAIMS

What is claimed is:

A golf putter comprising:

- 1 1. A shaft with a top end and a bottom end, said top end enclosed by a grip ✓
2 and said bottom end fixedly attached to a head at an angle ten degrees or greater
3 from a direction perpendicular to said head and a longitudinal axis extending
4 from said top end to said bottom end;
- 1 2. A head having mass, a center of gravity, a top face having an alignment
2 means, a bottom face having a narrow sole and rearwardly and upwardly
3 extending doze portion, a front striking face having a non radial curvature and a
4 sweet spot, a rear section having a cut out for concentrating said mass at a point of
5 attachment of a shaft, a heel section and a distal toe section being made of a
6 metallic or non-metallic material.
- 1 3. The head of Claim 2 wherein said center of gravity is midway between ✓
2 said heel and distal toe sections at a point along a longitudinal axis of a shaft.
- 1 4. The head of Claim 2 wherein said top face has an alignment means
2 extending in a radial arc from said front face wherein a fulcrum of said arc is
3 centered at said center of gravity of said head and defines said sweet spot.
- 1 5. The head of Claim 2 wherein said bottom face has a narrow sole.
- 1 6. The head of Claim 2 wherein said bottom face has a rearwardly and
2 upwardly extending doze.
- 1 7. The doze of Claim 6 wherein said doze extends upwardly and rearwardly
2 at an angle of greater than 10 degrees from a horizontal plane.
- 1 8. The head of Claim 2 wherein said front striking face has a surface forming



2 a non- radial curvature vertically extending across said front striking face and a
3 non-radial curvature horizontally extending across said front striking face
4 whereby when a golf ball having a surface is struck by said front striking face
5 surface, a one degree loft is imparted to said golf ball over a larger impact zone
6 regardless of where on said front striking surface said front striking surface
7 intersects said golf ball surface at a moment of impact.

1 9. The front striking face surface of Claim 8 wherein said vertically and
2 horizontally extending non-radial curvatures are defined by an arc derived from a
3 smoothing of a series of individual non-radial surfaces across said front striking
4 face.

1 10. The individual non-radial surfaces of Claim 9 whereby each non-radial
2 surface is defined by an non-radial curvature individually formulated to provide a
3 surface which when in contact with said golf ball surface imparts a one degree loft
4 to said golf ball regardless of where on said front striking face surface said front
striking face surface intersects said golf ball surface at a moment of impact.

1 11. The rear section of Claim 2 wherein said cut out removes mass from said
2 head whereby said center of gravity is concentrated at an entry point of said shaft
3 along said longitudinal axis of said shaft rearward of said front face, enabling a
pendulum swing by a golfer.

1 12. The entry point of Claim 11 wherein said entry point is located at a point
2 midway between said heel and said toe portions of said putter head.

1 13. The entry point of Claim 11 wherein said entry point is located a distance
2 away from said point midway between said heel and said toe portions of said
3 putter head.

A golf putter comprising:



1 14. A shaft with a top end and a bottom end, said bottom end fixedly attached
2 to a head and a longitudinal axis extending from said top end to said bottom end;

1 15. A head having mass, a center of gravity, a top face having an alignment
2 means, a bottom face having a narrow sole and rearwardly and upwardly
3 extending doze portion, a front striking face having a non-radial curvature and a
4 sweet spot, a rear section and a distal toe section.

1 16. The head of Claim 15 wherein said center of gravity may be at any point
2 between said heel and distal toe sections along a longitudinal axis of said shaft.

1 17. The head of Claim 15 wherein said top face has an alignment means
2 extending in a non-radial arc from said front face wherein a fulcrum of said non-
3 radial arc is centered at said center of gravity of said head and defines said sweet
4 spot.

1 18. The head of Claim 15 wherein said bottom face has a rearwardly and
2 upwardly extending doze.

1 19. The doze of Claim 18 wherein said doze extends upwardly and rearwardly
3 at an angle of greater than 10 degrees from a horizontal plane.

1 20. The head of Claim 15 wherein said front striking face has a surface
2 forming a non- radial curvature vertically extending across said front striking face
3 and a one degree loft is imparted to said golf ball regardless of where on said
4 golf ball surface said front striking surface intersects said golf ball surface
5 at a moment of impact.

1 21. The front striking face surface of Claim 20 wherein said vertically and
2 horizontally extending radial curvatures are defined by an arc derived from a
3 smoothing of a series of individual non-radial surfaces across said front striking



face.

1 22. The individual non-radial surfaces of Claim 21 whereby each non-radial
2 surface is defined by an non-radial contour individually formulated to provide a
3 surface which when in contact with said golf ball surface imparts a one degree loft
4 to said golf ball regardless of where on said front striking face surface said front
striking surface intersects said golf ball surface at a moment of impact.

1 23. The rear section of Claim 15 wherein said cut out removes mass from said
2 head whereby said center of gravity is concentrated at an entry point of said shaft
3 along said longitudinal axis of said shaft rearward of said front face, enabling a
4 pendulum swing by a golfer.

1 24. The entry point of Claim 23 wherein said entry point is located at a point
2 between said heel and said toe portions of said putter head.

1 25. The putter head of Claim 15 being composed of metallic or non-metallic
2 materials.

A golf putter head comprising:

1 26. A head having a top face with an alignment means, a bottom face, a front
2 striking face having a non-radial curvature, a sweet spot and a rear section.

1 27. The head of Claim 26 wherein said top face has an alignment means
2 extending in a non-radial arc from said front face wherein a fulcrum of said non-
3 radial arc defines said sweet spot.

1 28. The head of Claim 26 wherein said front striking face has a surface
2 forming a non- radial curvature vertically extending across said front striking face
3 and a one degree loft is imparted to said golf ball regardless of where on said



4 front striking face surface said front striking surface intersects said golf ball surface at a moment of impact.

1 29. The front striking face surface of Claim 28 wherein said vertically and
2 horizontally extending non-radial curvatures are defined by an arc derived from a
3 smoothing of a series of individual non-radial contours across said front striking
4 face.

1 30. The individual non-radial surfaces of Claim 29 whereby each non-radial
2 surface is defined by a non-radial curve individually formulated to provide a
3 surface which when in contact with said golf ball surface imparts a one degree loft
4 to said golf ball regardless of where on said front striking face surface said front
5 striking face surface intersects said golf ball surface at a moment of impact.

2027160-60842660